# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

### OF THE INTERIOR 5. Lease S

OMB No. 1004-0137 Expires July 31, 2010

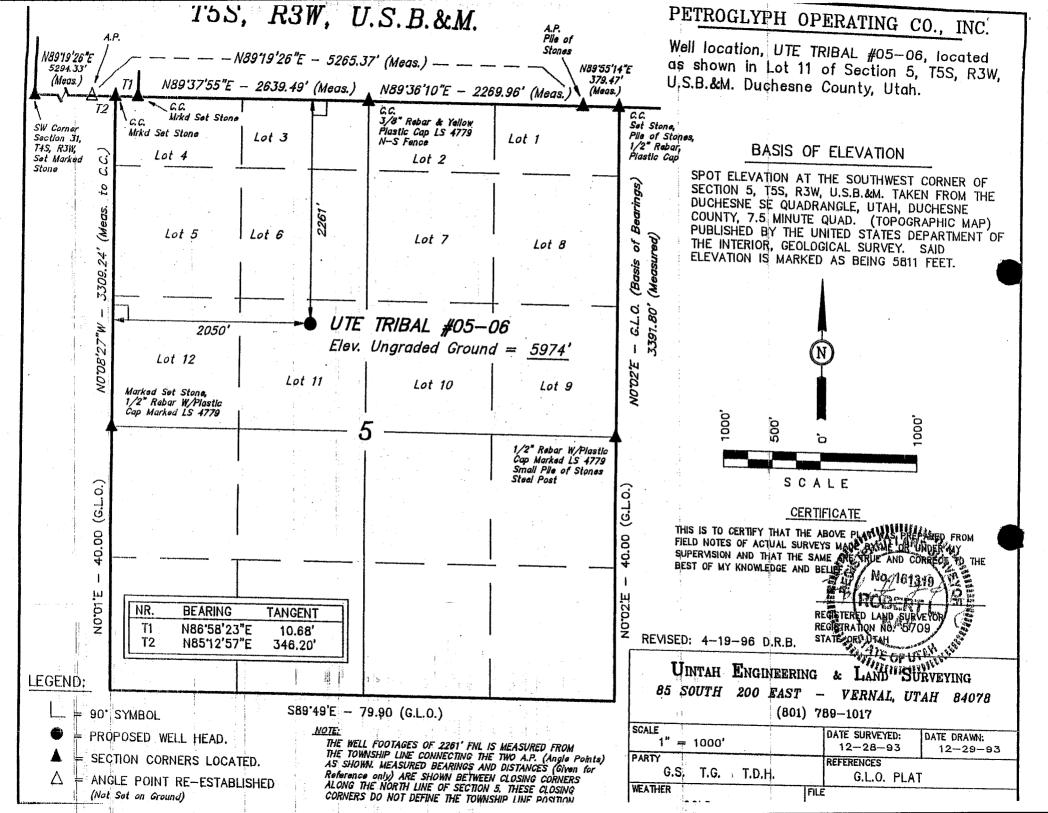
Lease Serial No.
 14-20-H62-3504

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FORM APPROVED

			7. If Unit or CA A	greement, Name and No.
1a. Type of Work: X DRILL	REENTER	-	8. Lease Name and	
1b. Type of Well: X Oil Well Gas Well Other	Single Zone X Muli	tiple Zone	8. Lease Name and UTE TRIE	
2. Name of Operator PETROGLYPH OPERATING CO., IN	<b>IC.</b>		9. API Well No.	013-34290
3a. Address P.O. BOX 607, ROOSEVELT, UT 84066	3b. Phone No. (Include area code) (435)722-2531		10. Field and Pool, or ANTELOP	
4. Location of Well (Report location clearly and in accordance At surface 2261' FNL, 2050' FWL 564102X 46 At proposed prod. Zone	with any State requirements.*)  Lot 11 SENW  1.078500  110.248197		11. Sec., T., R., M., o SEC. 5, T5 U.S.B.&M.	r Blk. and Survey or Area S, R3W,
<ol> <li>Distance in miles and direction from nearest town or post off</li> <li>17.9 MILES SOUTHWEST OF MYT</li> </ol>			12. County or Parish <b>DUCHESN</b>	E UTAH
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. Unit line, if any)	16. No. of Acres in lease 722.80	17. Space	ng Unit dedicated to thi	
18. Distance from proposed location* to nearest well, drilling, completed, See Topo applied for, on this lease, ft. Man "C."	19. Proposed Depth 6317 <sup>5</sup>		BIA Bond No. on file	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5967.2 FEET GRADED GROUND	22. Approximate date work will start* UPON APPROVAL		23. Estimated duration 45 DAYS	
<ol> <li>The following, completed in accordance with the requireme</li> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> <li>A Surface Use Plan (if the location is on National Forest SUPO shall be filed with the appropriate Forest Service of the complete of the complete</li></ol>	Bond to cover the (see Item 20 ab System Lands, the 5. Operator certificat	operations ove). tion.	ched to this form: unless covered by an e ation and/or plans as m	
25. Signature Ld 1 woth	Name (Printed/Typed) Ed Trotter			Date ptember 9, 2009
Title Agent	applygate from the control of the co			
Approved by (Signature)	Name (Printed/Typed) BRADLEY G. HILL ENVIRONMENTAL MANAGER		Date 11 - 6	2-09
Title	• Office			
application approval does not warrant or certify that the applicant on duct operations thereon. Conditions of Approval, if any, are attached.	holds legal or equitable title to those right	ts in the sub	ject lease which would	entitle the applicant to

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any person knowingly and willfully to make to united States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



#### Petroglyph Operating Co., Inc. P.O. Box 607 Roosevelt, UT 84066

September 9, 2009

Utah Division of Oil, Gas, & Mining 1594 West North Temple, Suite 1210 Box 145801 Salt Lake City, UT 84114-5801

> RE: APPLICATION FOR PERMIT TO DRILL UTE TRIBAL 05-06 LOT 11, SECTION 5, T5S, R3W DUCHESNE COUNTY, UTAH LEASE NO. BIA 14-20-H62-3504 UTE INDIAN TRIBAL LANDS

Enclosed please find a copy of the Application for Permit to Drill and associated attachments for the referenced well.

Please address further communication regarding this matter (including approval) to:

Ed Trotter P.O. Box 1910 Vernal, UT 84078 Phone: (435)789-4120 Fax: (435)789-1420

Sincerely

Agent

Petroglyph Operating Co., Inc.

Attachments

#### EIGHT POINT PLAN

#### UTE TRIBAL 05-06 LOT 11, SEC. 5, T5S, R3W DUCHESNE COUNTY, UTAH

## 1. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

FORMATIONS	DEPTH	SUBSEA
Mahogany Shale	2890	3077
"X" Marker	4516	1451
Douglas Creek	4659	1308
"B" Limestone	5052	915
B/Castle Peak Limestone	5617	350
Total Depth	6317	
Anticipated BHP 2578		

### 2. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS FORMATIONS:

Substance	<b>Formation</b>	Depth	Subsea
Oil/Gas	Douglas Creek	4659	1308
Oil/Gas	B/Castle Peak	5617	350

Other mineral zones N/A

## 3. PRESSURE CONTROL EQUIPMENT: BOP Schematic Diagram attached.

#### 4. CASING PROGRAM:

Hole	Casing	Top – MD	Bottom – MD	Weight lb/ft	Grade	Thread
18"	14"	sfc	40'	steel	cond	none
12 1/4"	8 5/8"	sfc	480'	24.0	J-55	STC
7 7/8"	5 1/2"	sfc	6,317'	15.5	J-55	LTC

Casing St	rengths:			Collapse	Burst	Tensile
8 5/8"	24.0 lb.	J-55	STC	1,370 psi	2,950 psi	263,000 lb
5 1/2"	15.5 lb.	J-55	LTC	4,040 psi	4,810 psi	239,000 lb

All casing will be new or inspected.

#### **EIGHT POINT PLAN**

#### UTE TRIBAL 05-06 LOT 11, SEC. 5, T5S, R3W DUCHESNE COUNTY, UTAH

#### 5. MUD PROGRAM

INTERVAL

0' - 250'

250 - 4000

4000' - TD

TD

**MUD TYPE** 

Air

Air/Mist & Aerated Water

Air/3% KCL water or KCL substitute

Gel/polyacrylamide plolymer w/5-10% LCM

Sufficient mud inventory will be maintained on location during drilling to handle any adverse conditions that may arise.

#### 6. CEMENT PROGRAM:

#### 14" Conductor:

Cement to surface with construction cement.

8 5/8" Casing: sfc-480'

Lead Slurry: 0' - 480': 137 sks (248 cu ft) Light cement + 0.25 lb/sk

Kwik Seal + 0.125 lb/sk Poly-E-Flake. Slurry wt: 13.5 ppg, Slurry yield: 1.81 ft<sup>3</sup>/sk, Slurry volume: 12-1/4" hole + 25% excess. (Cement will be circulated to surface).

5 1/2" Casing: sfc-6317'

Lead Slurry: sfc-4000': 230 sx Light Cement (11 ppg±, 3.81 ft<sup>3</sup>/sk) plus LCM (hole + 25% excess).

Tail Slurry:

**4000'-6317':** 311 sx 50/50 Pozmix (14 ppg $\pm$ , 1.25ft<sup>3</sup>/sk) + 2% Gel + 5% Salt + 0.125 lb/sk Poly-E-flake (hole + 25% excess). (Cement will be circulated to surface).

### 7. VARIANCE REQUESTS:

- A. Petroglyph Operating Company, Inc. requests a variance to regulations requiring a straight run blooie line.
- B. Petroglyph Operating Company, Inc. requests a variance to regulations requiring an automatic ignitor or continuous pilot light on the blooie line.

### 5. EVALUATION PROGRAM:

Logs:

Platform Express

TD to base of surface casing

(DLL, MSFL, CNG, CDL, GR)

Cores: None anticipated

DST: None Programmed

Completion: To be submitted at a later date.

#### **EIGHT POINT PLAN**

#### UTE TRIBAL 05-06 LOT 11, SEC. 5, T5S, R3W DUCHESNE COUNTY, UTAH

#### 6. ABNORMAL CONDITIONS:

None anticipated.

#### 7. STANDARD REQUIRED EQUIPMENT:

None Required

#### 8. <u>HAZARDOUS CHEMICALS:</u>

No chemicals subject to reporting under SARA title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling of this well.

(Attachment: BOP Schematic Diagram)

# CONDITIONS OF APPROVAL FOR THE SURFACE USE PROGRAM OF THE APPLICATION FOR PERMIT TO DRILL

Company/Operator:	Petroglyph Operating Co. Inc.
Well Name & Number:	Ute Tribal #05-06
Lease Number:	BIA 14-20-H62-3504
Location:	2261' FNL & 2050' FWL, Lot 11,
***	Sec. 5, T5S, R3W, U.S.B.&M.,
	Duchesne County, Utah
Surface Ownership:	Ute Indian Tribe

#### NOTIFICATION REQUIREMENTS

Location Construction - forty-eight (48) hours prior to construction of location and access roads.

Location Completion - prior to moving on the drilling rig.

Spud Notice:

- at least twenty-four (24) hours prior to

spudding the well.

Casing String and

Cementing

- twenty-four (24) hours prior to running

casing and cementing all casing strings.

BOP and related

**Equipment Tests** 

- twenty-four (24) hours prior to running

casing and tests.

First Production

Notice well - within five (5) business days after new

begins or production resumes after well has been off production for more than

ninety (90) days.

For more specific details on notification requirements, please check the Conditions of Approval for Notice to Drill and Surface Use Program.

#### THIRTEEN POINT SURFACE USE PROGRAM

#### 1. EXISTING ROADS

- A. See attached Wellsite Plats showing directional reference stakes on location, and attached TOPO Map "B" showing access to location from existing roads.
- B. The proposed well site is located approximately 17.9 miles southwest of Myton, Utah See attached TOPO Map "A".
- C. Refer to attached Topographic Map "A" showing labeled access route to location.
- D. Existing roads will be maintained and repaired as necessary. No off lease Right-of-Way will be required.

#### 2. PLANNED ACCESS ROAD

- A. The access road will be approximately 0.3 miles in length. See attached TOPO Map "B".
- B. The access road has a 30 foot ROW w/ 18 foot running surface.
- C. Maximum grade on access road will be 8%.
- D. No turnouts will be required.
- E. Road drainage crossings shall be of the typical dry creek drainage crossing type.
- F. No culverts, bridges, or major cuts and fills will be required.
- G. The access road will be dirt surface.
- H. No gates, cattleguards, or fences will be required or encountered.

New or reconstructed roads will be centerlined - flagged at time of location staking.

All travel will be confined to existing access road Right-of-Way.

Access roads and surface disturbing activities will conform to standards outlined in the Bureau of Land Management and Forest Service Publication: Surface

Operating Standards For Oil & Gas Exploration and Development, (1989).

The road shall be upgraded to meet the standards of the anticipated traffic flow and all-weather road requirements. Upgrading shall include ditching, drainage, graveling, crowning, and capping the roadbed as necessary to provide a well-constructed safe road. Prior to upgrading, the road shall be cleared of any snow cover and allowed to dry completely. Traveling off the 30 foot Right-of-Way will not be allowed.

Road drainage crossings shall be of the typical dry creek drainage crossing type. Crossings shall be designed so they will not cause siltation or accumulation of debris in the drainage crossings nor shall the drainages be blocked by the roadbed. Erosion of drainage ditches by run off water shall be prevented by diverting water off at frequent intervals by means of cutouts. Upgrading shall not be allowed

during muddy conditions. Should mud holes develop, they shall be filled in and detours around them avoided.

As operator, Petroglyph Operating Co., Inc. shall be responsible for all maintenance on cattleguards, or gates associated with this oil and/or gas operation.

# 3. LOCATION OF EXISTING WELLS WITHIN A ONE MILE RADIUS OF PROPOSED WELL LOCATION

- A. Abandoned wells 1\*
- B. Producing wells 10\*

  (\*See attached TOPO map "C" for location)

#### 4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

#### A. ON WELL PAD

- 1. Tank batteries None
- 2. Production facilities To be submitted later
- 3. Oil gathering lines None
- 4. Gas gathering lines None
- 5. Injection lines None
- 6. Disposal lines None
- 7. Surface pits None

#### B. OFF WELL PAD

- 1. Proposed location of attendant off pad flowlines shall be flagged prior to archaeological clearance.
- 2. Protective measures and devices for livestock and wildlife will be taken and/or installed where required.
- 3. A 41/2" OD steel above ground production pipeline will be laid approximately 1800' from proposed location to a point in the SE/NE of Section 5, T5S, R3W, where it will tie into Petroglyph Operating Co. Inc.'s existing pipeline. Proposed pipeline crosses Ute Tribe lands, thus a Right-of-Way grant will be required. See attached TOPO Map "D" showing pipeline route.
- 4. Proposed pipeline will be a 4 ½ "OD steel, welded line laid on the surface.

If storage facilities/tank batteries are constructed on this lease, the facility/battery or the well pad shall be surrounded by a containment dike of sufficient capacity to contain, at a minimum, the entire contents of the largest tank within the facility/battery, unless more stringent protective requirements are deemed necessary by the authorized officer.

The production facilities will be placed on the Northwest side of the location.

All permanent (on site for six months or longer) structures constructed or installed (including pumping units) will be painted a flat, non-reflective, earthtone color to match one of the standard environmental colors, as determined by the Rocky Mountain Five State Interagency Committee. All facilities required will be painted within 6 months of installation. Facilities required to comply with O.S.H.A. (Occupational Safety and Health Act) will be excluded.

The required paint color is Desert Brown.

#### 5. LOCATION & TYPE OF WATER SUPPLY

- A. Water supply will be from Target Trucking's Roosevelt Brine Storage and/or Target's water source in SE ¼, Sec. 1, T4S, R5W, Duchesne, Utah (State Water Right #43-10152). All water will come from a non-depletable source.
- B. Water will be hauled by a licensed trucking company.
- C. No water well will be drilled on lease.

#### 6. SOURCE OF CONSTRUCTION MATERIAL

- A. All construction material for this location and access road will be of native borrow and soil accumulated during the construction of the location.
- B. All construction material will come from Ute Tribal Land.
- C. No mineral materials will be required.

#### 7. METHODS OF HANDLING WASTE DISPOSAL

#### A. METHODS AND LOCATION

- 1. Cuttings will be confined in the reserve pit.
- 2. A portable toilet will be provided for human waste during the drilling and completion of the well. Disposal will be at the Vernal sewage disposal plant.
- 3. Burning will not be allowed. Trash and other waste material will be contained in a wire mesh cage and disposed of at an approved waste disposal facility.
- 4. Produced waste water will be confined to a lined pit or storage tank for a period not to exceed 90 days after initial production. During the 90 day period, an application for approval of a permanent disposal method and location, together with the required water analysis, will be submitted for the AO's approval.
- 5. All chemicals will be disposed of at an authorized disposal site. Drip pans and absorbent pads will be used on the drilling rig to avoid leakage of oil to the pit.

B. Water from drilling fluids and recovered during testing operations will be disposed of by either evaporating in the reserve pit or be removed and disposed of at an authorized disposal site. Introduction of well bore hydrocarbons to the reserve pit will be avoided by flaring them off in the flare pit at the time of recovery.

Burning of trash will not be allowed. All trash must be contained in a trash cage and hauled away to an approved disposal site at the completion of the drilling activities.

#### On BIA administered land:

All reserve pits will be lined with either native clay, commercial bentonite or plastic sufficient to prevent seepage. (If a plastic nylon reinforced liner is used, it shall be torn and perforated after the pit dries and before backfilling of the reserve pit).

#### A 12 mill liner shall be installed in the reserve pit.

\_\_\_\_\_\_To protect the environment:

If the reserve pit is lined, the operator will provide the BIA with a chemical analysis of the fluids in that pit no later than 90 days after the well completion to determine the method for final reclamation of the reserve pit. If the elemental concentrations shown by the chemical analysis exceeds the requirements described by Part II, Standards of Quality for Waters of the State, Wastewater Disposal Regulations, State of Utah Division of Health, the contents and liner will be removed and disposed of at an authorized disposal site.

\_\_\_\_\_\_\_To protect the environment (without chemical analysis), reserve pits will be constructed so as not to leak, break, or allow discharge of liquids.

Storage tanks will be used if drill sites are located on tribal irrigable land, flood plains, or on lands under crop production. After first production, produced waste water will be confined to a lined pit or storage tank for a period not to exceed ninety (90) days. During the 90 day period, in accordance with NTL-2B, an application for approval of a permanent disposal method and location, along with required water analysis, shall be submitted for the AO's approval. Failure to file an application within the time allowed will be considered an incident of noncompliance.

#### 7. ANCILLARY FACILITIES

No airstrips or camps are planned for this well.

#### 9. WELLSITE LAYOUT

- A. Refer to attached well site plat for related topography cuts and fills and cross Sections.
- B. Refer to attached well site plat for rig layout and soil material stockpile

location as approved on On-site.

C. Refer to attached well site plat for rig orientation, parking areas, and access road.

The reserve pit will be located on the East side of the location. The flare pit will be located downwind of the prevailing wind direction on the Southeast side of the location, a minimum of 100 feet from the well head and 30 feet from the reserve pit fence.

The stockpiled topsoil will be stored on the Northwest side of the location.

Access to the well pad will be from the Northeast.

X Corners #6 & #8 will be rounded off to minimize excavation.

#### 10. FENCING REQUIREMENTS:

All pits will be fenced according to the following minimum standards:

- A. Thirty-nine inch net wire shall be used with at least one strand of barbed wire on top of the net wire. (Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence).
- B. The net wire shall be no more than 2 inches above the ground. The barbed wire strand shall be 3 inches above the net wire. Total height of the fence shall be at least 42 inches.
- C. Corner posts shall be cemented and/or braced in such a manner as to keep the fence tight at all times.
- D. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than 16 feet.
- E. All wire shall be stretched by using a stretching device before it is attached to the corner posts.

The reserve pit fencing will be on the three sides during drilling operations and on the fourth side when the rig moves off the location. Pits will be fenced and maintained until clean-up.

Each existing fence to be crossed by the access road shall be braced and tied off before cutting so as to prevent slacking of the wire. The opening shall be closed temporarily as necessary during construction to prevent the escape of livestock, and, upon completion of construction, the fence shall be repaired to BIA or SMA specifications. A cattleguard with an adjacent 16 foot gate shall be installed in any fence where a road is to be regularly traveled. If the well is a producer, the cattleguards (shall/shall not) be permanently mounted on concrete bases. Prior to crossing any fence located on Tribal land, or any fence between Tribal land and private land, the operator will contact the BIA, who will in turn contact the grazing permittee or owner of said fence and offer him/her the opportunity to be

present when the fence is cut in order to satisfy himself/herself that the fence is adequately braced and tied off.

#### 11. PLANS FOR RESTORATION OF SURFACE

#### A. PRODUCING LOCATION

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, materials, trash, and junk not required for production.

Immediately upon well completion, any hydrocarbons on the pit shall be removed in accordance with CFR 3162.7-1.

If a plastic nylon reinforced liner is used, it shall be torn and perforated before backfilling of the reserve pit.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximate natural contours. The reserve pit will be reclaimed within 120 days from the date of well completion (weather permitting). Before any dirt work takes place, the reserve pit will be completely dry and all cans, barrels, pipe, fluid, and hydrocarbons, will be removed.

Contact appropriate surface management agency for required seed mixture.

#### B. <u>DRY HOLE/ABANDONED LOCATION</u>

At such time as the well is plugged and abandoned, the operator will submit a subsequent report of abandonment and the BIA will attach the appropriate surface rehabilitation conditions of approval.

#### ON BIA ADMINISTERED LANDS:

Abandoned well sites, roads, or other disturbed areas will be restored to near their original condition. This procedure will include: (a) reestablishing irrigation systems where applicable, (b) reestablishing soil conditions in irrigated fields in such a way as to ensure cultivation and harvesting of crops and, © ensuring revegetation of the disturbed areas to the specifications of the Ute Indian Tribe or the BIA at the time of abandonment.

#### 12. SURFACE OWNERSHIP

Access road: <u>Ute Indian Tribe</u> Location: <u>Ute Indian Tribe</u>

#### 13. OTHER INFORMATION

A. Petroglyph Operating Co., Inc. will inform all persons in the area who are associated with this project that they are subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, the

operator will immediately stop work that might further disturb such materials, and contact the AO. Within five working days the AO will inform the operator as to:

- whether the materials appear eligible for the National Register of Historic Places;
- the mitigation measures the operator will likely have to undertake before the site can be used.
- a time frame for the AO to complete an expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the AO are correct and that mitigation is appropriate.

If the operator wished, at any time, to relocate activities to avoid the expense of mitigation and/or the delays associated with this process, the AO will assume responsibility for whatever recordation and stabilization of the exposed materials that may be required. Otherwise, the operator will be responsible for mitigation costs. The AO will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the AO that required mitigation has been completed, the operator will then be allowed to resume construction.

- B. As operator, Petroglyph Operating Co., Inc. will control noxious weeds along Right-of-Ways for roads, pipelines, well sites, or other applicable facilities. A list of noxious weeds will be obtained from the BIA, or the appropriate County Extension Office. On BIA administered land, a Pesticide Use proposal shall be submitted, and given approval, prior to the application of herbicides or other pesticides or possible hazardous chemicals.
- C. Drilling rigs and/or equipment used during drilling operations on this well site will not be stacked or stored on Tribal Lands after the conclusion of drilling operations or at any other time without BIA authorization. However, if BIA authorization is obtained, it is only a temporary measure to allow time to make arrangements for permanent storage on commercial facilities.

#### On BIA administered land:

Operator's employees, including subcontractors, will not gather firewood along roads constructed by operators. If wood cutting is required, a permit will be obtained from the Forestry Department of the BIA pursuant to 25 CFR 169.13 "Assessed Damages Incident to Right-of-Way authorization". All operators, subcontractors, vendors, and their employees or agents may not disturb saleable timber (including firewood) without a duly granted wood permit from the BIA Forester.

If the surface rights are owned by the Ute Indian Tribe and mineral rights are owned by another entity, an approved right-of-way will be obtained from the BIA before the operator begins any construction activities. If the surface is owned by another entity and the mineral rights are owned by the Ute Indian Tribe, rights-of-way will be obtained from the other entity. All roads constructed by operators on the Uintah and Ouray Indian Reservation will have appropriate signs. Signs will be neat and of sound construction. They will state: (a) that the land is owned by the Ute Indian Tribe, (b) the name of the operator, © that firearms are prohibited to all non-Ute Tribal members, (d) that permits must be obtained from the BIA before cutting firewood or other timber products, and (e) only authorized personnel permitted. All well site locations on the Uintah and Ouray Indian Reservation will have an appropriate sign indicating the name of the operator, the lease serial number, the well name and number, the survey description of the well (either footage or the quarter-quarter section, the section, township, and range).

#### 14. Additional Surface Stipulations

None

#### LESSEE'S OR OPERATOR'S REPRESENTATIVE AND CERTIFICATION

<b>PERMITTING</b>	<b>OPERATIONS</b>			
Ed Trotter	Jason Bywater			
P.O. Box 1910	P.O. Box 607			
Vernal, UT 84078	Roosevelt, UT 84066			
Telephone: (435)789-4120	(435)722-2531			
Fax: (435)789-1420	(435)722-9145			

All lease or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approval plan of operations, and any applicable Notice to Lessees. Petroglyph Operating Co., Inc. is fully responsible for the actions of their subcontractors. A copy of these conditions will be furnished to the field representative to insure compliance.

A copy of the approved APD and ROW grant, if applicable, shall be on location during construction of the location and drilling activities.

The BIA office shall be notified upon site completion prior to moving on the drilling rig.

#### Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions that presently

exist; that the statements made in the Plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Petroglyph Operating Co., Inc. and its contractors and subcontractors in conformity with this Plan and the terms and conditions under which it is approved.

Please be advised that Petroglyph Operating Co., Inc. is considered to be the operator of the UTE TRIBAL 05-06 Well, located in Lot 11 of Section 5, T5S, R3W, Duchesne County, Utah; Lease #14-20-H62-3504; and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond Coverage is provided under Bond #BO 4556.

Date

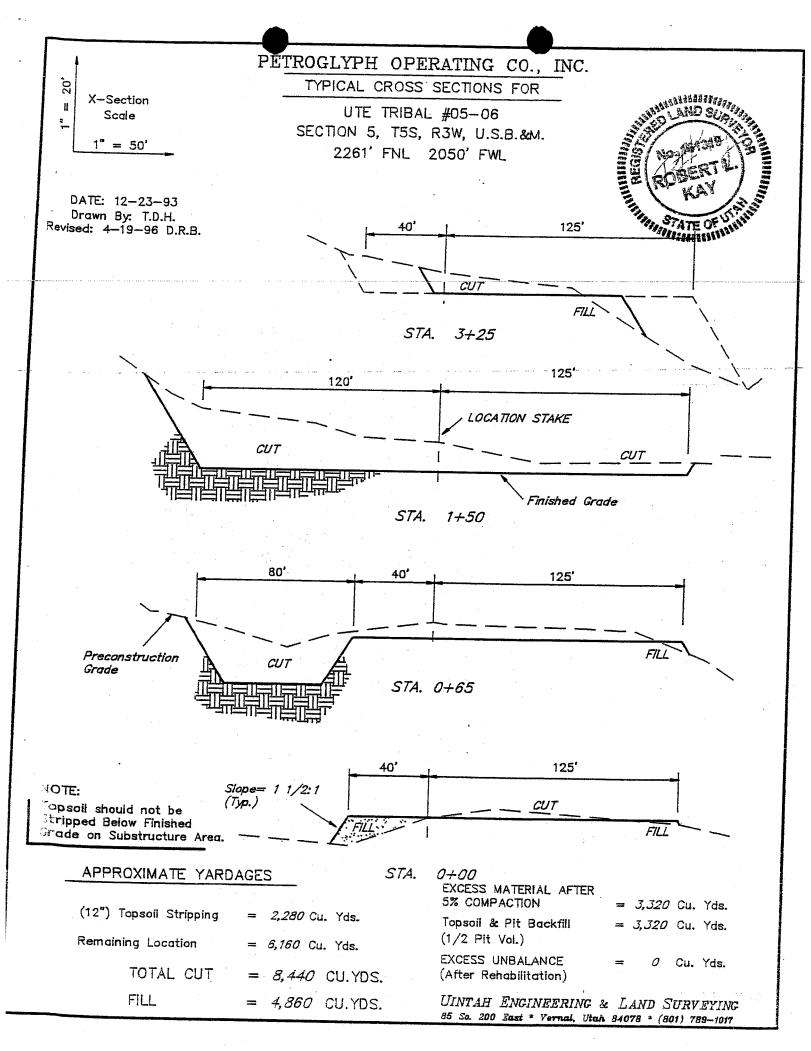
Ed Trotter, as Agent for

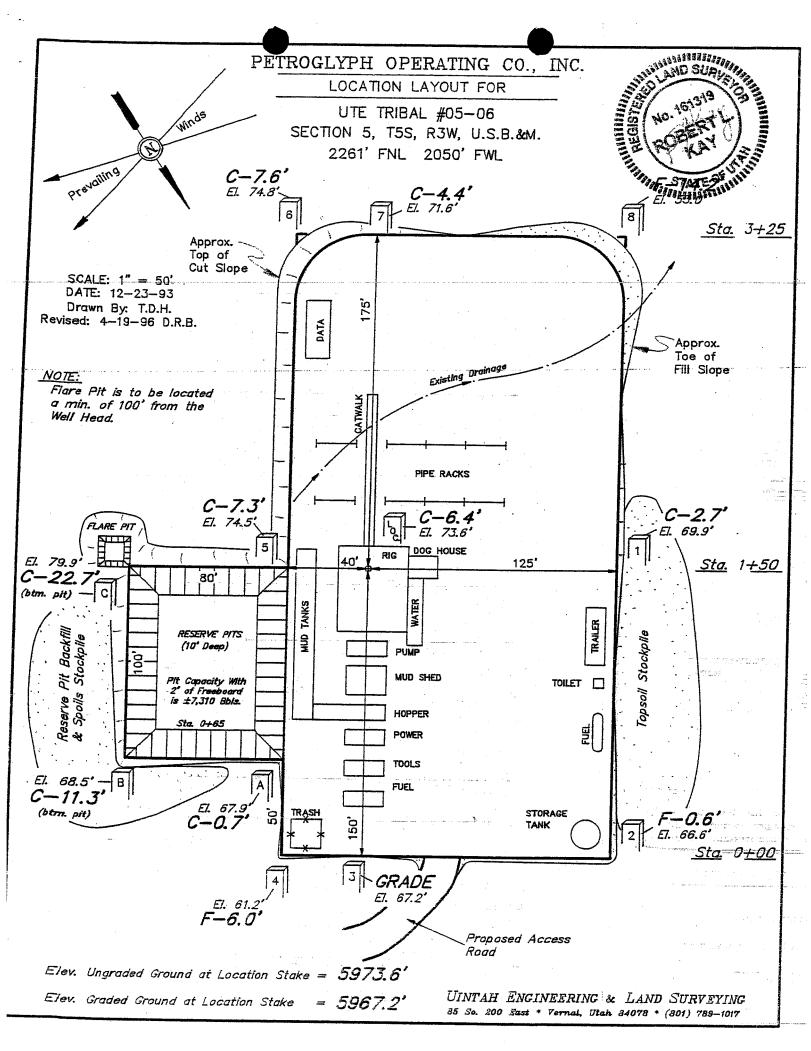
Petroglyph Operating Co., Inc.

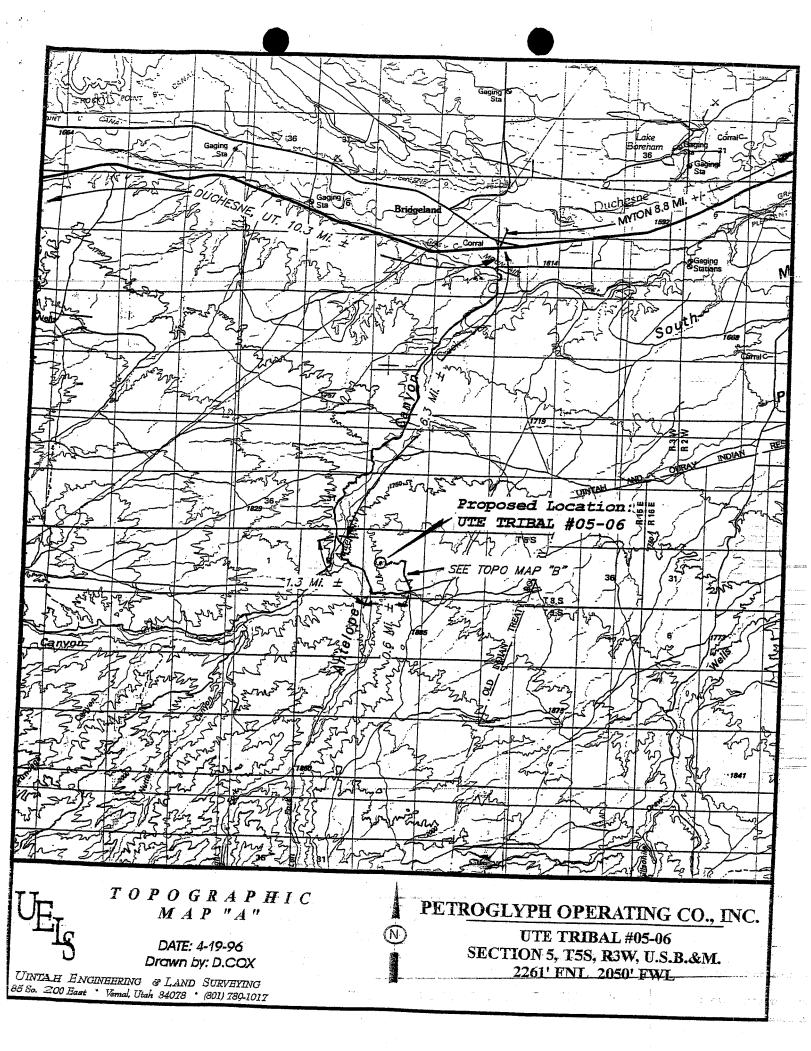
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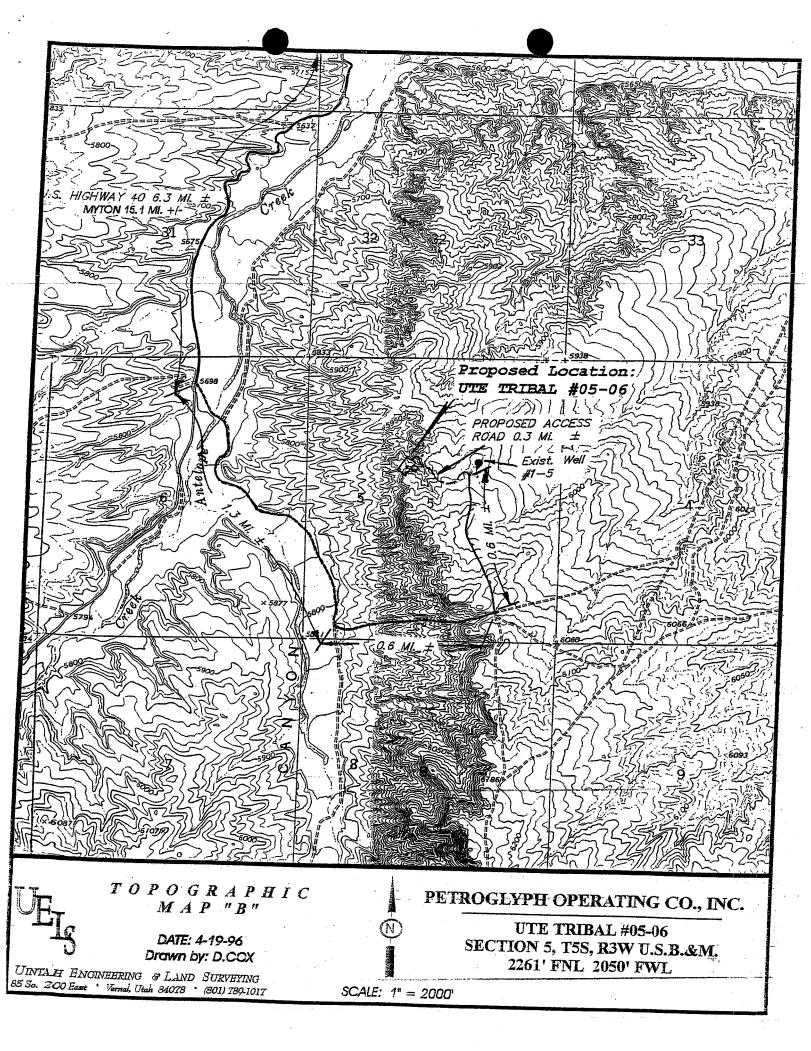
UTE TRIBAL #05-06 SECTION 5, T5S, R3W, U.S.B.&M.

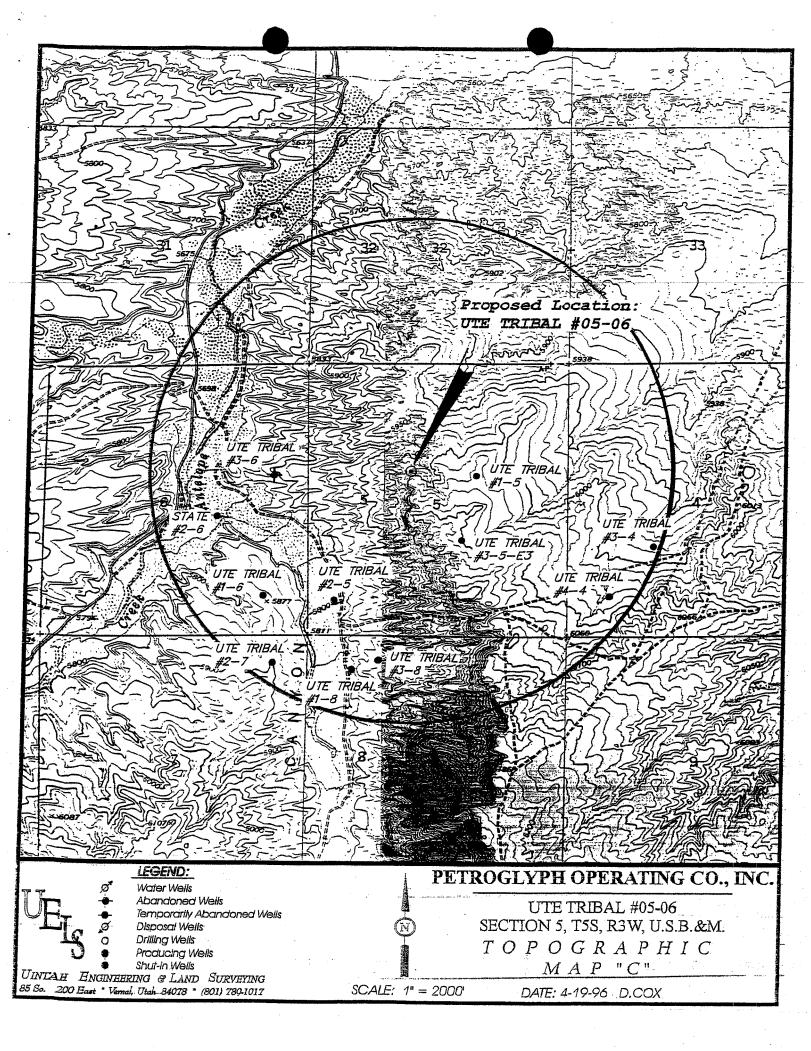
PROCEED IN A SOUTHWESTERLY DIRECTION FROM MYTON, UTAH APPROXIMATELY 8.8 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN LEFT AND PROCEED IN A SOUTHERLY DIRECTION ALONG THE ANTELOPE CANYON ROAD APPROXIMATELY 6.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN LEFT AND PROCEED IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 1.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 0.6 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTH; TURN LEFT AND PROCEED IN A NORTHERLY DIRECTION APPROXIMATELY 0.6 MILES TO THE BEGINNING OF THE PROPOSED ACCESS ROAD TO THE NORTHWEST; FOLLOW ROAD FLAGS IN A SOUTHWESTERLY THEN NORTHWESTERLY DIRECTION APPROXIMATELY 0.3 MILES TO THE PROPOSED LOCATION.

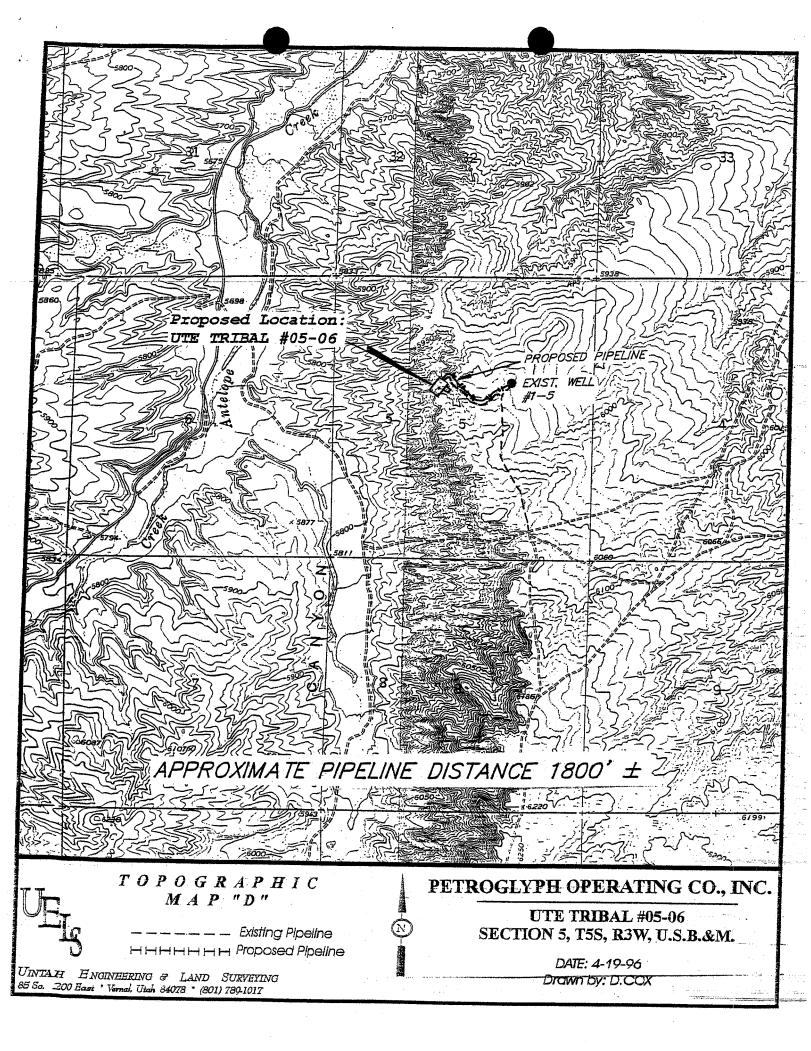




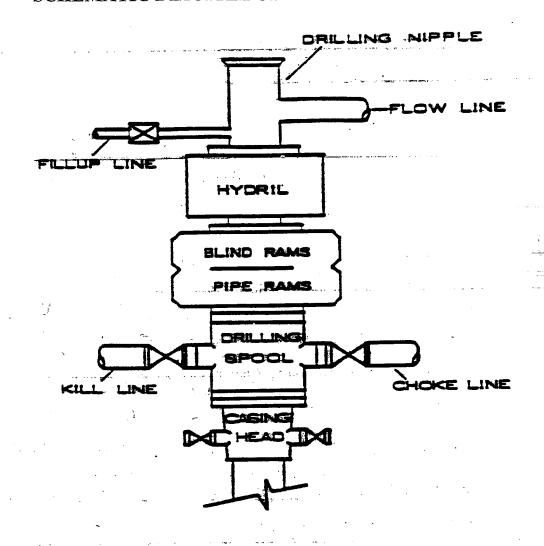


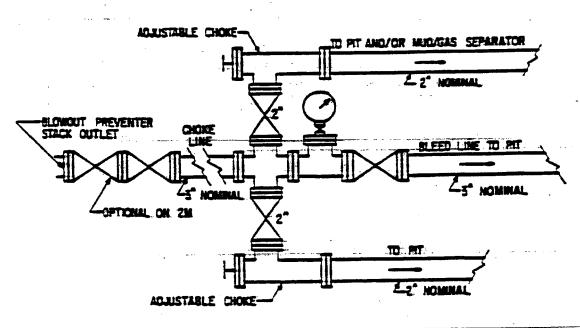




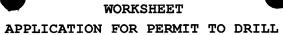


## SCHEMATIC DIAGRAM OF 2000 PSI BOP STACK

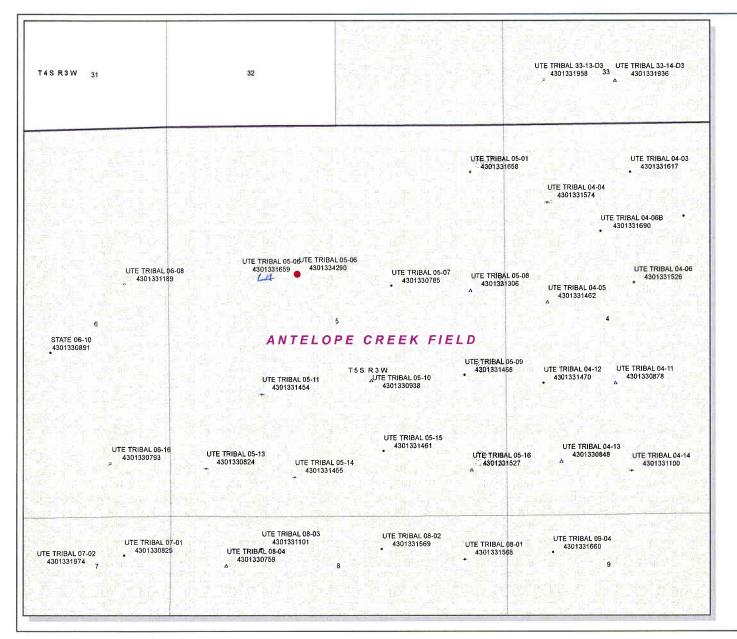








APD RECEIVED: 10/26/2009	API NO. ASSIGNED: 43-013-34290
WELL NAME: UTE TRIBAL 05-06  OPERATOR: PETROGLYPH OPERATING CO ( N3800 )  CONTACT: ED TROTTER	PHONE NUMBER: 435-722-2531
PROPOSED LOCATION:	INSPECT LOCATN BY: / /
SENW 05 050S 030W	Tech Review Initials Date
SURFACE: 2261 FNL 2050 FWL BOTTOM: 2261 FNL 2050 FWL	Engineering
COUNTY: DUCHESNE	Geology
LATITUDE: 40.07850 LONGITUDE: -110.24820 UTM SURF EASTINGS: 564102 NORTHINGS: 443653	Surface
FIELD NAME: ANTELOPE CREEK ( 60 )  LEASE TYPE: 2 - Indian  LEASE NUMBER: 14-20-H62-3504  SURFACE OWNER: 2 - Indian	PROPOSED FORMATION: CSLPK COALBED METHANE WELL? NO
Plat  Bond: Fed[] Ind[2] Sta[] Fee[]  (No. BO 4556  Potash (Y/N)  Oil Shale 190-5 (B) or 190-3 or 190-13  Water Permit  (No. 43-10152  RDCC Review (Y/N)  (Date:)  Fee Surf Agreement (Y/N)  Intent to Commingle (Y/N)	LOCATION AND SITING:  R649-2-3.  Unit: R649-3-2. General
STIPULATIONS: 1- Feder Copa	706Q



API Number: 4301334290

Well Name: UTE TRIBAL 05-06

Township 05.0 S Range 03.0 W Section 05

Meridian: UBM

Operator: PETROGLYPH OPERATING CO

Map Prepared: Map Produced by Diana Mason

GAS INJECTION	Units
GAS STORAGE	Spacing Index

LOCATION ABANDONED

ACTIVE FIELD

NEW LOCATION

COMBINED FIELD

PLUGGED & ABANDONED

PRODUCING GAS

PRODUCING OIL

SHUT-IN GAS

SHUT-IN OIL

TEMP. ABANDONED

TEST WELL

▲ WATER INJECTION

WATER SUPPLY







1:11,233

State of Utah Division of Oil, Gas & Mining 1594 West North Temple, Suite 1210 Box 145801 Salt Lake City, UT 84114-5801

October 29, 2009

Re: Application for Exception Well Location Proposed

> Ute Tribal 05-06 in Lot 11, Sec. 5 Ute Tribal 28-07 in Lot 2, Sec. 28 Ute Tribal 29-11G in NESW, Sec. 29 All in T5S, R3W, U.S.B.&M. Duchesne County, Utah

Due to topography, Petroglyph Operating Company Inc. (Petroglyph) respectfully requests administrative approval per R-649-3-3 to drill the following wells:

Lite Tribal 05-06, a 6317' Green River test at a location 2261' FNL & 2050' FWL, Lot 11, Sec. 5, T5S, R3W, U.S.B.&M., Duchesne County, Utah

Ute Tribal 28-07, a 6196' Green River test at a location 1754' FNL & 576' FEL, Lot 2, Sec. 28, T5S, R3W, U.S.B.&M., Duchesne County, Utah.

Lie Tribal 29-11G, a 5967' Green River test at a location 2595' FSL & 2623' FWL, NE/SW, Sec. 29, T5S, R3W, U.S.B.&M., Duchesne County, Utah.

Petroglyph Operating Company Inc. holds 100% of the operating rights within a 460° radius of the requested well site.

Petroglyph respectfully requests the Division of Oil, Gas and Mining Administratively grant the applications for the exceptional well locations at its earliest opportunity so that drilling operations can resume.

Please direct further correspondence and approval to myself at P.O. Box 1910, Vernal, Utah 84078, or phone me at 435-789-4120

Ed Trottor Assum

Ed Frotter, Algem

Petroglyph Operating Company Inc.



GARY R. HERBERT

Lieutenant Governor

## State of Utah

#### DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

November 2, 2009

Petroglyph Operating Co., Inc. P O Box 607 Roosevelt, UT 84066

Re:

Ute Tribal 05-06 Well, 2261' FNL, 2050' FWL, SE NW, Sec. 5, T. 5 South, R. 3 West,

Duchesne County, Utah

#### Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval to drill the referenced well is granted.

Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-34290.

Sincerely,

Gil Hunt

Associate Director

pab Enclosures

cc:

**Duchesne County Assessor** 

Bureau of Land Management, Vernal Office



Operator:	Petroglyph Operating Co., Inc.			
Well Name & Number	Ute Tribal 05-06			
API Number:	43-013-34290			
Lease:	14-20-H62-3504			

Location: SE NW

Sec. <u>5</u>

T. 5 South

**R.** 3 West

#### **Conditions of Approval**

#### 1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

#### 2. Notification Requirements

Notify the division within 24 hours of spudding the well.

• Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

• Contact Dustin Doucet at (801) 538-5281 (801) 733-0983 home

#### 3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

- 4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.
- 5. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

## DIVISION OF OIL, GAS AND MINING

## **SPUDDING INFORMATION**

Name of Cor	npany:	F	PETROGI	<u>YPH</u>	OPERATIN	G COMI	PANY
Well Name	•		UTE TR	IBAL	05-06		
Api No:	43-01	<u>3-34290</u>			_Lease Type	INDI	AN
Section 05	Towns	ship <u>05S</u>	Range_	03W	County	DU	CHESNE
Drilling Cor	ntractor_	CRAI	G'S ROU	STAB	OUT SERV	_RIG #_	BUCKET
SPUDDE	D:						
	Date	0	6/15/2010				
	Time _	9	0:00 AM				
	How	<u>D</u>	ORY				
Drilling wi	ill Com	mence	*				
Reported by			GLE	NDA	DAVIS		
Telephone #			(43:	5) 722	2-5303		
Date	06/30/2	010	Signed	(	CHD		

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

	5. LEASE DESIGNATION AND SERIAL NUMBER:
Ì	1420H623504

•	142011020004
SUNDRY NOTICES AND REPORTS ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE INDIAN TRIBE
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	7. UNIT or CA AGREEMENT NAME: 1420H624650
	8. WELL NAME and NUMBER: UTE TRIBAL 05-06
2. NAME OF OPERATOR: PETROGLYPH OPERATING COMPANY	9. API NUMBER: 4301334290
3. ADDRESS OF OPERATOR: PHONE NUMBER:	10. FIELD AND POOL, OR WILDCAT:
PO BOX 607 CITY ROOSEVELT STATE UT ZIP 84066 (435) 722-2531	ANTELOPE CREEK FIELD
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2261' FNL, 2050' FWL	COUNTY: DUCHESNE
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNW 5 5S RW U 59 3W 5	STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION TYPE OF ACTION	
NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will start:  CASING REPAIR  CHANGE TO PREVIOUS PLANS  DEEPEN  FRACTURE TREAT  NEW CONSTRUCTION  OPERATOR CHANGE  CHANGE TUBING  PLUG AND ABANDON	REPERFORATE CURRENT FORMATION SIDETRACK TO REPAIR WELL TEMPORARILY ABANDON TUBING REPAIR VENT OR FLARE
SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion:  CHANGE WELL NAME  CHANGE WELL STATUS  PRODUCTION (START/RESUME)  COMMINGLE PRODUCING FORMATIONS  RECLAMATION OF WELL SITE  CONVERT WELL TYPE  RECOMPLETE - DIFFERENT FORMATION	WATER DISPOSAL  WATER SHUT-OFF  ✓ OTHER: SPUD
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes THIS WELL WAS SPUD ON 6/15/2010 AT 9:00 AM	s, etc.
NAME (PLEASE PRINT) GLENDA DAVIS TITLE OFFICE MANAGE	ER .
SIGNATURE JUNGA DAVIS  DATE 6/30/2010	7=0=1//=0
(This space for State use only)	HEGEIVED

DIV. OF OIL, GAS & MINING

JUL 0 1 2010

# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED OMB No. 1004-0137 Expires July 31, 2010

5. Lease Serial No.

14-20-H62-3504

6. If Indian, Allottee or Tribe Name

**UTE INDIAN TRIBE** 

1a. Type of Work: X DRILL	REENTER	7. If Unit or CA Agreement, Name and No.  UTE TRIBAL  8. Lease Name and Well No.			
1b. Type of Well: 🗓 Oil Well 🔲 Gas Well 🔲 Other	LITE TOIDAL OF OG				
2. Name of Operator PETROGLYPH OPERATING CO.,	9. API Well No. 43 013 34290				
3a. Address P.O. BOX 607, ROOSEVELT, UT 84066	INC.  3b. Phone No. (Include area code) (435)722-2531	10. Field and Pool, or Exploratory ANTELOPE CREEK			
4. Location of Well (Report location clearly and in accordan At surface 2261' FNL, 2050' FWL	11. Sec., T., R., M., or Blk. and Survey or Area SEC. 5, T5S, R3W,				
At proposed prod. Zone		U.S.B.&M.			
14. Distance in miles and direction from nearest town or post 17.9 MILES SOUTHWEST OF MY	TON, UTAH	12. County or Parish 13. State DUCHESNE UTAH			
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. Unit line, if any)	16. No. of Acres in lease <b>722.80</b>	17. Spacing Unit dedicated to this well 40			
18. Distance from proposed location* to nearest well, drilling, completed, See Topo applied for, on this lease, ft. Man "C"	19. Proposed Depth <b>6317</b>	20. BLM/BIA Bond No. on file  BO 4556			
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5967.2 FEET GRADED GROUND	22. Approximate date work will start* UPON APPROVAL	23. Estimated duration 45 DAYS			
The following, completed in accordance with the requirer	24. Attachments nents of Onshore Oil and Gas Order No. 1, s	shall be attached to this form:			
<ol> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> <li>A Surface Use Plan (if the location is on National Fore SUPO shall be filed with the appropriate Forest Service</li> </ol>	(see Item 20 all est System Lands, the 5. Operator certification				
25. Signature / Lel 1 sotti	Name (Printed/Typed) Ed Trotter REC	EIVED September 9, 2009			
Title Agent	≸e'⊹	9 2010 SAS & MINING			
Approved by (Signature)	James H. Sp	Date			
Acting Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE				
Application approval does not warrant or certify that the application operations thereon.	ant holds legal or equitable title to those right				

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any factor of the United States and United St



# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT VERNAL FIELD OFFICE

VERNAL FIELD OFFICE VERNAL, UT 84078

(435) 781-4400



#### CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: Well No:

API No:

Petroglyph Operating Co., Inc.

Ute Tribal 05-06

43-013-34290

Location:

Lot #11, Sec. 5, T5S, R3W

Lease No:

14-20-H62-3504

Agreement: N/A

**OFFICE NUMBER:** 

(435) 781-4400

**OFFICE FAX NUMBER:** 

(435) 781-3420

## A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.

#### NOTIFICATION REQUIREMENTS

Construction Activity (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	_	The Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist shall be notified at least 48 hours in advance of any construction activity. The Ute Tribal office is open Monday through Thursday.
Construction Completion (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	-	Upon completion of the pertinent APD/ROW construction, notify the Ute Tribe Energy & Minerals Dept. for a Tribal Technician to verify the Affidavit of Completion. Notify the BLM Environmental Scientist prior to moving on the drilling rig.
Spud Notice (Notify BLM Petroleum Engineer)	_	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify BLM Supv. Petroleum Tech.)	_	Twenty-Four (24) hours prior to running casing and cementing all casing strings to: ut_vn_opreport@blm.gov.
BOP & Related Equipment Tests (Notify BLM Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify BLM Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

Page 2 of 6 Well: Ute Tribal 05-06 6/24/2010

#### SURFACE USE PROGRAM CONDITIONS OF APPROVAL (COAs)

- The operator will strictly adhere to all Stipulations and Conditions of Approval associated with the Private surface owner's agreement.
- Any deviation of submitted APD's and ROW applications, the operator will notify the private surface owner in writing and will receive written authorization of any such change with appropriate authorization.
- The operator will implement "Safety and Emergency Plan." The operator's safety director will ensure its compliance.
- All operator employees and/or authorized personnel (sub-contractors) in the field will have approved applicable APD's and ROW permits/authorizations on their person(s) during all phases of construction.
- All vehicular traffic, personnel movement, construction/restoration operations shall be confined to the area examined and approved, and to the existing roadways and/or evaluated access routes.
- All personnel shall refrain from collecting artifacts, any paleontological fossils, and from disturbing any significant cultural resources in the area.
- The Private surface owner and BLM archeologist shall be notified should cultural remains from subsurface deposits be exposed or identified during construction. All construction will cease.

Page 3 of 6 Well: Ute Tribal 05-06 6/24/2010

## DOWNHOLE PROGRAM CONDITIONS OF APPROVAL (COAs)

#### SITE SPECIFIC DOWNHOLE COAs:

- A formation integrity test shall be performed at the surface casing shoe.
- Gamma Ray Log shall be run from Total Depth to Surface.
- Operator must notify BLM Vernal office of any active Gilsonite operation within 2 miles of the location 48 hours prior to any blasting on this well location

#### Variances Granted

#### Air Drilling

- Blooie line discharge 100' from the well bore, variance granted for blooie line discharge to be 75' from the well bore and not in a straight line.
- Automatic igniter. Variance granted for igniter.
- A requirement of a water mister when air drilling only.
- The BOP stack must be 2000 psi or higher rated to meet maximum potential surface pressure.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

#### DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the
  daily drilling report. Components shall be operated and tested as required by Onshore Oil &
  Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be
  performed by a test pump with a chart recorder and <u>NOT</u> by the rig pumps. Test shall be
  reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.

Page 4 of 6 Well: Ute Tribal 05-06 6/24/2010

 Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.

- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- · Cement baskets shall not be run on surface casing.
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water
  is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM
  Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM,
   Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum
   Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- Please submit an electronic copy of all other logs run on this well in LAS format to UT\_VN\_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

Page 5 of 6 Well: Ute Tribal 05-06 6/24/2010

#### **OPERATING REQUIREMENT REMINDERS:**

 All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.

- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be
  notified when it is placed in a producing status. Such notification will be by written
  communication and must be received in this office by not later than the fifth business day
  following the date on which the well is placed on production. The notification shall provide, as a
  minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location (¼¼, Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - o The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - Unit agreement and/or participating area name and number, if applicable.
  - o Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or

Page 6 of 6 Well: Ute Tribal 05-06 6/24/2010

data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field
  Office Petroleum Engineers will be provided with a date and time for the initial meter calibration
  and all future meter proving schedules. A copy of the meter calibration reports shall be
  submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API
  standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All
  measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted
  to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs
  first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be
  adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively
  sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover
  equipment shall be removed from a well to be placed in a suspended status without prior
  approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30
  days, prior approval of the BLM Vernal Field Office shall be obtained and notification given
  before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office
  Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in
  order that a representative may witness plugging operations. If a well is suspended or
  abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent
  Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual
  plugging of the well bore, showing location of plugs, amount of cement in each, and amount of
  casing left in hole, and the current status of the surface restoration.

### STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

CONFIDENTIAL

	ENTITY ACTIO	N EODI				
	ENTITY ACTIO	N FORM				
yph Operating Compai	ny	One	rator Ac	count Ni	ımhori	N 3800
ox 607		_ Ope	HALUI AL	Count IN	umber: _	N
osevelt		<del>-</del>				
T	zip 84066	<del></del>		hone Ni	imhar:	(435) 722-5303
		_	'	HOHE NO	anner	, , , , , , , , , , , , , , , , , , , ,
Well	Namo	1 00	6	T =	T =	
	Ivanie					County
	Now Entity	<del></del>			ļ	DUCHESNI
Number	New Entity Number	"	pua Da	te	Ent	tity Assignmen Effective Date
99999	9391				7	115/10
e add the OF OF to the	00004					770
10 - G/UC	/			<del></del>	<del></del>	
Woll	Nome			T =	<del></del>	
AAGII	Name	QQ	Sec	Twp	Rng	County
Current Entity Number	New Entity Number	S	pud Dat	e	Ent	ity Assignment
		+			<del> </del>	
Well	Namo		800	<b>T</b>		
Well	Name	QQ	Sec	Twp	Rng	County
Well Current Entity Number	Name New Entity Number		Sec pud Dat		Rng	County
Current Entity	New Entity				Rng	County ity Assignment
	Well  Current Entity  Well  Well  Current Entity  Well  Well  Current Entity	Well Name Ute Tribal 05-06  Current Entity Number  99999  939  e add the 05-06 to the 09391 entity number  P/C = G/C/C/C  Well Name  Current Entity New Entity Number  New Entity Number  P/C = G/C/C/C  Well Name	osevelt    T   zip 84066     Well Name   QQ     Ute Tribal 05-06   SENW     Current Entity   New Entity   Number   Number     Q   Q   Q   Q   Q   Q   Q     e add the 05-06 to the 09391 entity number (existing graph of the control	Tosevelt    Well Name   QQ   Sec     Ute Tribal 05-06   SENW   5     Current Entity   New Entity   Number   Spud Date     Part	Operator Account Notice      Total Content   Section   S	Departor Account Number:    Sec   Sec   Twp   Rng

JUL 0 1 2010

		DE:	SIAIE OF UIAH	DOE	_			FOKIWI 9
	İ		PARTMENT OF NATURAL RESOU ISION OF OIL, GAS AND MI					ASE DESIGNATION AND SERIAL NUMBER: 20H623504
	SUNDRY	' N	OTICES AND REPORTS	s o	N WEL	LS	1	INDIAN, ALLOTTEE OR TRIBE NAME: E INDIAN TRIBE
Do	not use this form for proposals to drill n	ew we	ells, significantly deepen existing wells below cur . Use APPLICATION FOR PERMIT TO DRILL t	rrent bo	ottom-hole de r such propos	oth, reenter plugged wells, or to als.		IIT or CA AGREEMENT NAME: 20H624650
1. T	YPE OF WELL OIL WELL	<b>7</b>	GAS WELL OTHER _					ELL NAME and NUMBER: E TRIBAL 05-06
	IAME OF OPERATOR: ETROGLYPH OPERATI	NG	COMPANY					NUMBER: 01334290
	DDRESS OF OPERATOR: D BOX 607	RC	OOSEVELT STATE UT ZIP	,840	66	PHONE NUMBER: (435) 722-2531		ELD AND POOL, OR WILDCAT: ITELOPE CREEK FIELD
	OCATION OF WELL OOTAGES AT SURFACE: 2261 F	v 5. 1	to the control of the				COUN	ITY: DUCHESNE
c	RTR/QTR, SECTION, TOWNSHIP, RAN		District Mark Store (17 Store 17	3W			STAT	UTAH
11.	CHECK APPR	ROF	PRIATE BOXES TO INDICAT	ſΕN	ATURE	OF NOTICE, REPO	RT, C	OR OTHER DATA
	TYPE OF SUBMISSION				T	YPE OF ACTION		
	NOTICE OF INTENT		ACIDIZE		DEEPEN			REPERFORATE CURRENT FORMATION
ш	(Submit in Duplicate)		ALTER CASING		FRACTURE	TREAT		SIDETRACK TO REPAIR WELL
	Approximate date work will start:		CASING REPAIR		NEW CON	STRUCTION		TEMPORARILY ABANDON
			CHANGE TO PREVIOUS PLANS		OPERATO	R CHANGE		TUBING REPAIR
			CHANGE TUBING		PLUG AND	ABANDON		VENT OR FLARE
$\checkmark$	SUBSEQUENT REPORT		CHANGE WELL NAME		PLUG BAC	K		WATER DISPOSAL
	(Submit Original Form Only)		CHANGE WELL STATUS	Z	PRODUCTI	ON (START/RESUME)		WATER SHUT-OFF
	Date of work completion:		COMMINGLE PRODUCING FORMATIONS		RECLAMAT	TION OF WELL SITE		OTHER:
			CONVERT WELL TYPE		RECOMPL	ETE - DIFFERENT FORMATION		
12.	DESCRIBE PROPOSED OR CO	MPL	ETED OPERATIONS. Clearly show all p	ertine	nt details in	cluding dates, depths, volume	es, etc.	
TH	IE DATE OF FIRST PRO	ODU	JCTION FOR THIS WELL W	AS (	ON 8/1/2	2010		

(This space for State use only)

NAME (PLEASE PRINT)

**RECEIVED** 

AUG 0 4 2010

OFFICE MANAGER

DATE 8/2/2010

		DEP	ST ARTMEN	TATE C			URCES	s				ENDED			FORM 8
			SION O								5. L		SIGNATIO		ERAL NUMBER:
WEL	L COMPL	ETIOI	N OR I	RECO	MPL	ETIC	N RI	EPOR	RT AND	LOG		INDIAN, JTE T		E OR TRI	BE NAME
1a. TYPE OF WELL		OiL WELL	1	GAS WELL	]	DRY		ОТН	ER		7. i	INIT or CA	AGREE	MENT NAM	ΛE .
b. TYPE OF WOR	K: HORIZ. LATS.	DEEP-	П	RE- ENTRY	ר	DIFF. RESVR.		ОТН	FR			VELL NAM		JMBER: L 05-0	6
2. NAME OF OPER. PETROGI	ATOR:			CNINI EL		NEOVI.	<del></del>					PI NUMBI 43013			,
3. ADDRESS OF OR		orry <b>F</b>	ROOSE	/FI T	STATE	UT	zip 840	 066		NUMBER: (5) 722-2531	10 F	IELD AND	POOL, C	OR WILDO	
4. LOCATION OF V	VELL (FOOTAGES) 2261' FNL 2	J. 585 * 15 1	and the same			-			iew			QTR/QTR MERIDIAN	Sitteral Second	1.0000000000000000000000000000000000000	SHIP, RANGE,
AT TOP PRODU	ICING INTERVAL R	EPORTED	BELOW: \$	SAME	ianaja Sudja		D)	y Hi	SM)						BETATATA EL MIERTE LA
AT TOTAL DEP	TH: SAME	<b>2</b> 23	4 fn	120		e fi	۱ن					COUNTY			13. STATE UTAH
14. DATE SPUDDE 6/15/2010	D: 15. DA	0/2010	ACHED:	16. DATE	COMPL 0/2010			ABANDON	ED 🗌	READY TO PRODU	CE 🔽		VATIONS 181 KI	(DF, RKE BRT	3, RT, GL):
18. TOTAL DEPTH:	MD 6,346 TVD 6,346		19. PLUG	BACK T.D		6,298 6,298		20. IF I	MULTIPLE CO	OMPLETIONS, HOW	MANY?*	21. DEP PL	TH BRIDO UG SET:		
22. TYPE ELECTRI	C AND OTHER MED C. DNL DUA				-	)	,		WAS DST	L CORED? RUN? NAL SURVEY?	NO NO NO	$\overline{Z}$	(ES	(Sub	mit analysis) mit report) mit copy)
24. CASING AND L	INER RECORD (Re	port all str	ings set in v	vell)					BIRLOTIC	TAL GORVET!	110		20 🗸	(000)	ти зору)
HOLE SIZE	SIZE/GRADE	WEIG	HT (#/ft.)	TOP (	MD)	воттс	M (MD)		EPTH	CEMENT TYPE & NO. OF SACKS	SLU VOLUM	RRY IE (BBL)	CEME	NT TOP **	AMOUNT PULLED
20	14 J5:	5.11	42	C			0			REDIN				0	CONDUCT
12.25	8.625 J5	F.0	24	0			12			G 220		19	70	0 CBL	SURF
7.875	5.5 J5	5 7	5.5	0	)	6,	369	<b> -</b>		G 955	2	80	70	CBL	PROD
								-							
				<del> </del>				<del>                                     </del>							
25. TUBING RECO	RD			L							::	<del></del>			
SIZE	DEPTH SET (	MD) PA	CKER SET	(MD)	SIZE	=	DEPTH	SET (MD	) PACKE	R SET (MD)	SIZE		EPTH SE	ET (MD)	PACKER SET (MD)
2.875	6,206									<u>.                                    </u>					
26. PRODUCING IN							1			RATION RECORD		lue ue	-o [	DEDEC	
FORMATION	<del></del>	TOP (MD)		ом (MD) 242	TOP	(TVD)	вотто	M (TVD)	4,377	L (Top/Bot - MD) 4.382	size	NO. HOL		en 🔽	RATION STATUS Squeezed
(A) GREEN I	RIVER	4,377	- 0,	242			<u> </u>		4,851	4,855	.42	16	Ор		Squeezed
(C)									4,882	4,886	.42	16	_ <del> </del>	en 🗸	Squeezed
(D)					<u> </u>				4,901	4,903	.42	8		en 🗸	Squeezed
28, ACID, FRACTU	IDE TREATMENT	CEMENTS	OUEEZE ET	rc	<u> </u>		J		T,301				OP	<u> </u>	
	INTERVAL	1	20LLL, L.	-		<del></del>		AM	OUNT AND T	YPE OF MATERIAL	42				
6229-6242		26	700# @	പ വെ#_5:	# & 3	600#	ര 6# 1			BBLS 15# DE	ΙΤΔ 1	40 W/	250 G		% HCI
5342-5497										3BLS 15# DE					
5028-5195										BBLS 15# DE					
29. ENCLOSED AT	TACHMENTS:	100	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		· <u>~ 0,</u>	550F (	٠ ٥١١ وي								LL STATUS:
	FRICAL/MECHANICA		ND CEMEN	T VERIFICA	ATION		GEOLOG	IC REPOR		DST REPORT	Z DIREC	CTIONAL S	SURVEY		POW
tunned														REC	CEIVED

(CONTINUED ON BACK)

AUG 3 1 2010

#### 31. INITIAL PRODUCTION

#### INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED	):		OIL BBL:	GAS MCF:	WATER - BBL:	PROD. METHOD:
7/31/2010	)	8/1/2010		2	24	RATES: →	129	13	19	FLOWING
CHOKE SIZE: 32			API GRAVITY 33.00	BTU – GAS 1	1	24 HR PRODUCTION RATES: →	OIL – BBL: <b>129</b>	GAS - MCF: 13	WATER - BBL: 19	INTERVAL STATUS: POW/ROD I
				INT	ERVAL B (As show	vn in item #26)				
DATE FIRST PRO	ODUCED:	TEST DATE:		HOURS TESTED	):	TEST PRODUCTION RATES: →	OIL – BBL:	GAS - MCF:	WATER ~ BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS - MCF:	WATER BBL:	INTERVAL STATUS:
	•			INT	ERVAL C (As show	wn in item #26)				
DATE FIRST PRO	ODUCED:	TEST DATE:		HOURS TESTED	):	TEST PRODUCTION RATES: →	OIL – BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS MCF:	WATER - BBL:	INTERVAL STATUS:
	•			INT	ERVAL D (As sho	wn in item #26)				
DATE FIRST PRO	ODUCED:	TEST DATE:		HOURS TESTED	<b>)</b> :	TEST PRODUCTION RATES: →	OIL - BBL:	GAS MCF:	WATER BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

USED FOR FUEL

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof. Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
				MAHOGANY GARDEN GULCH B MKR. X MKR. Y MKR. DOUGLAS CREEK MKR. B LIME CASTLE PEAK MKR. BASAL CARBONATE WASATCH	2,903 3,640 4,043 4,540 4,574 4,886 5,082 5,658 6,054 6,333

35. ADDITIONAL REMARKS (Include plugging procedure)

36. I hereby certify that the foregoing and attached information is complete and correct as determined fro			
NAME (PLEASE PRINT) BOYD COOK	TITLE RIG REP		
SIGNATURE Boyld Coul	DATE 8-25-10		

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests
- \* ITEM 20: Show the number of completions if production is measured separately from two or more formations.
- \*\* ITEM 24: Cement Top Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to:

Utah Division of Oil, Gas and Mining 1594 West North Temple, Suite 1210

Box 145801

Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940



#### **UTE TRIBAL 05-06 COMPLETION**

# CONTINUATION OF OF PERF. INTERVALS AND FRACS. FORM 8 SEC. 27

#### PERFS. CONT:

C9.2 @5208'-5233'=.42 DIA. 20 HOLES OPEN
B-LIME @5072'-5080'=.42 DIA. 32 HOLES OPEN
D3 @5193'-5195'=.42 DIA. 8 HOLES OPEN
D7@5342'-5348' (24 HOLES) & 5393'-5396' (12 HOLES) & 5455'-5458' (12 HOLES) & 5466'-5469' (12 HOLES) & 5471'-5482' (44 HOLES) & 5486'-5490' (16 HOLES) & 5494'-5497' (12 HOLES) (ALLD7 SHOTS .42 DIA. OPEN
H1@ 6229'-6242'=.42 DIA. 52 HOLES OPEN

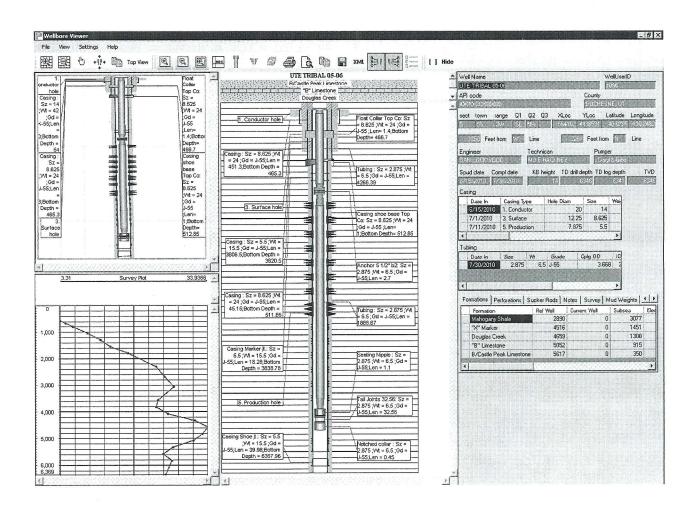
#### ALL SHOTS 90 DEGREE PHASING 4SPF

### **FORM 8 SEC. 28**

FRACS. CONT:

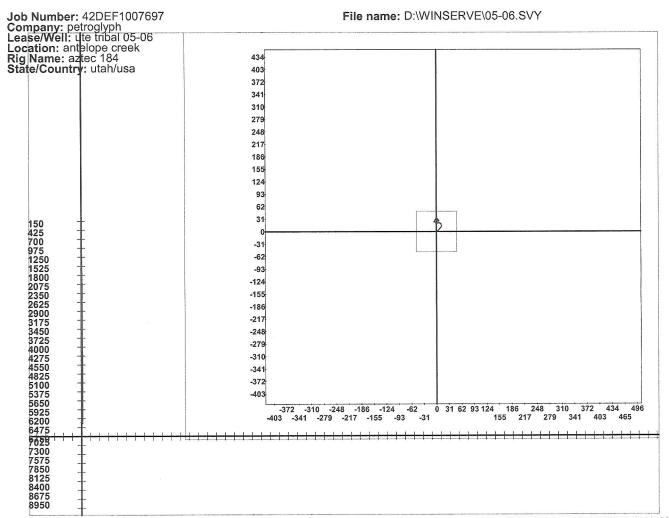
#### **DEPTH INTERVAL:**

4851'-4903'=23,700# @ 1#-5# SAND W/241 BBLS. 15# DELTA 140 W/15% HCL 4377'-4382'=12,000# @ 1#-5# & 14,560# @ 6# SAND W/133 BBLS. 15# DELTA 140 W/250 GAL 15% HCL



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<sup>\*--</sup> AS DRILLED \*-- UTE TRIBAL 05-06 \*-- I

Job Number: 42DEF1007697 Company: petroglyph Lease/Well: ute tribal 05-06 Location: antelope creek Rig Name: aztec 184 RKB: 5981 G.L. or M.S.L.: 5967 State/Country: utah/usa
Declination: 11.52

Grid: 🎚

File name: D:\WINSERVE\05-06.SVY
Date/Time: 10-Jul-10 / 20:59
Curve Name: AS DRILLED

#### Scientific Drilling

# WINSERVE SURVEY CALCULATIONS Minimum Curvature Method Vertical Section Plane .00 Vertical Section Referenced to Wellhead Rectangular Coordinates Referenced to Wellhead

Measured	Incl	Drift	True			Vertical	CL	OSURE	Dogleg
Depth FT	Angle Deg	Direction Deg	Vertical Depth	N-S FT	E-W FT	Section FT	Distance FT	Direction Deg	Severity Deg/100
				and the second of the second o					
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
577.00	1.14	54.76	576.96	3.31	4.69	3.31	5.74	54.76	.20
669.00	1.06	46.15	668.95	4.43	6.05	4.43	7.50	53.79	.20
791.00	.88	39.03	790.93	5.94	7.45	5.94	9.53	51.45	.18
914.00	.79	38.33	913.91	7.34	8.57	7.34	11.29	49.44	.07
1036.00	.88	32.97	1035.90	8.78	9.61	8.78	13.02	47.56	.10
1160.00	.79	38.33	1159.89	10.25	10.65	10.25	14.79	46.10	.10
1288.00	.62	37.71	1287.88	11.49	11.62	11.49	16.35	45.32	.13
1413.00	.53	23.65	1412.87	12.56	12.27	12.56	17.56	44.34	.13
1540.00	.44	11.70	1539.87	13.57	12.60	13.57	18.52	42.88	.11
1666.00	.62	320.54	1665.86	14.57	12.27	14.57	19.05	40.09	.39
1794.00	1.23	2.64	1793.85	16.48	11.89	16.48	20.32	35.81	.68
1921.00	.88	340.14	1920.83	18.76	11.62	18.76	22.07	31.78	.42

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L ( Distance FT	OSURE Direction Deg	Dogleg Severity Deg/100
2045.00 2172.00 2298.00 2425.00	.88 .88 1.23 1.41	304.64 294.97 274.58 253.92	2044.81 2171.80 2297.78 2424.74	20.20 21.16 21.68 21.35	10.52 8.83 6.61 3.75	20.20 21.16 21.68 21.35	22.77 22.93 22.66 21.68	27.51 22.65 16.95 9.95	.43 .12 .40 .40
2551.00	1.49	250.85	2550.70	20.39	.71	20.39	20.40	1.99	.09
2677.00 2804.00 2929.00	.62 .79 .44	312.02 44.04 335.66	2676.68 2803.68 2928.67	20.31 21.40 22.45	-1.35 -1.25 85	20.31 21.40 22.45	20.35 21.43 22.47	356.21 356.66 357.84	1.04 .80 .60
3056.00 3182.00	.44 .35	295.85 286.18	3055.67 3181.66	23.11 23.43	-1.49 -2.29	23.11 23.43	23.16 23.54	356.32 354.41	.24 .09
3308.00 3436.00 3563.00	.62 .70 .97	277.65 274.66 257.26	3307.66 3435.65 3562.64	23.63 23.78 23.61	-3.34 -4.80 -6.62	23.63 23.78 23.61	23.86 24.26 24.52	351.96 348.58 344.33 344.10	.22 .07 .29 1.46
3690.00 3817.00	.88 .35	74.63 84.47	3689.63 3816.62	23.63 23.93	-6.73 -5.41	23.63 23.93	24.57 24.53	347.27	.42
3943.00 4070.00 4194.00	.26 1.23 .70	217.45 28.83 350.95	3942.62 4069.62 4193.60	23.74 24.70 26.61	-5.20 -4.71 -4.19	23.74 24.70 26.61	24.30 25.15 26.94	347.65 349.19 351.05	.44 1.17 .65
4321.00 4447.00	1.85 1.23	36.57 32.35	4320.57 4446.52	29.03 31.80	-3.09 -1.16	29.03 31.80	29.19 31.82	353.92 357.92	1.14 .50
4573.00 4698.00 4824.00 4950.00	1.06 .44 .26 .35	104.77 122.70 157.95 221.31	4572.50 4697.49 4823.49 4949.49 5074.48	32.65 32.09 31.57 31.01 30.07	.69 2.22 2.73 2.58 3.29	32.65 32.09 31.57 31.01 30.07	32.66 32.17 31.69 31.12 30.25	1.22 3.95 4.94 4.76 6.24	1.08 .52 .22 .26 .92
5075.00	1.06	124.37	5201.46	28.54	4.32	28.54	28.86	8.62	.66
5202.00 5326.00 5453.00 5578.00 5705.00	.79 1.41 .70 .62 .70	175.52 196.27 74.89 47.82 11.17	5201.46 5325.44 5452.43 5577.42 5704.41	26.24 26.22 24.92 25.58 26.80	4.32 3.96 4.27 5.51 6.17	26.22 24.92 25.58 26.80	26.52 25.29 26.16 27.50	8.59 9.73 12.16 12.97	.59 1.47 .25 .33
5831.00 5956.00 6144.00 6284.00	.44 .09 .53 .97	344.10 273.61 245.84 223.16	5830.41 5955.41 6143.40 6283.39	28.02 28.49 28.14 27.01	6.19 5.96 5.02 3.62	28.02 28.49 28.14 27.01	28.70 29.10 28.59 27.25	12.45 11.82 10.11 7.63	.29 .33 .24 .37

Page 2 AS DRILLED File: D:\WINSERVE\05-06.SVY

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L C Distance FT	O S U R E Direction Deg	Dogleg Severity Deg/100	
projection to bit										
6346.00	.97	223.16	6345.38	26.25	2.90	26.25	26.41	6.30	.00	

		بأنباء إستوسارك	of of all and the same	] [	્રે• <b>H</b> -						P				
	VV E	LL PRO	) FILE		) E D A 1	rop (	007	$\mathcal{L}_{0}$	IJYPI	**. [_]		Casing.	Liner	Tut	oing
		7.147	The state of the s	11					105.						
				11		svt.			108.	- OG	SIZE	878	5/2	3%	
			05/0	<b>!</b> !		Y Du			<del></del>		WEIGHT	24	158	68	
			24#	11		w		J-V G		·	GRADE	3.55	3-65	3.5K	
			× 51 C	11		2-30		***************************************				S.L.	2746		
								TION	Пи	ORKOVER	THREAD	<u> </u>	to 5		
										OIROVER	DEPTH	5/2	103Lq	6205	
.	<u>.</u>			ITEM NO.	1			EQUI	IPMENT	T AND SER	VICES	,			
					KB	37h		**************************************					4.00	-	
4					131	345	266	-50	558	nd .			6.39	426	2626
	1			2	5%	2"7	cw/	1455	shear		× 3.		20	1 '	3.03
•				3	58	54'S ==	27/6 6	45-	5587			1888	67		26.26
			51/2 15.54	4	27/	B PSM	62.	28.ZD	SNU	V			10	l l	2.86
			63	5	13	12/18	6-5	3-55	822			82,8		1	5,42
	1			6	278	NIA	ω/ <sub>1</sub>	FO_				1.4	5-	62	0587
: ;			<b>k 0</b>			54	16404	-on	16 K	- 16"					
			A Company of the Comp		1/2	×20 P	משמס	Line						ļ	
		$\mathbf{I}$	(2)		716	por	<u></u>	70 (72	<i></i>						
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					2/	21/12	<u> </u>	KKX	17 M	14c Spro 3cup Top	y mutol	·			
					100	F1646	6/ -	P72	21	3 cup 7 sp	Single	volve			
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٠			to the product of the	38	43	77-8	2	2014	15						
			And the second of the second o	C5.5	1			164				****			
			Control of Control	<u>C6</u>	48	8Z_	86,	4901	1-03	24 HIS V	<u></u>				
	1							20H							
								32							
				103 109				8 H 47-4L		cc cs /					(24)
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